

IN TH CLAIMS:

The following is a complete listing of claims in this application.

Claims 1-14 (canceled).

15. (new) A method for producing a substrate for supporting an object for processing, the substrate comprising carbon and having gas outlets or passage openings formed therein, interspersed through the substrate, comprising the steps of:

producing a framework made of at least one of carbon fibers and SiC fibers, and

stabilizing the framework with at least one pyrocarbon and/or silicon carbide coating that forms a matrix, such that the stabilized framework has a porosity level that forms the gas outlet or passage openings,

the stabilized framework or a segment thereof being used as the substrate.

16. (new) A method according to claim 15, wherein the fibers are stabilized by means of vapor infiltration (CVI) and/or fluid impregnation.

17. (new) A method according to claim 15, wherein the framework comprises stabilized felt, stabilized non-woven materials, or stabilized fabric layers.

18. (new) A method according to claim 15, wherein the fibers are stabilized solely with carbon or solely with silicon carbide.

19. (new) A method according to claim 15, wherein the fibers are stabilized with a at least one coating selected from the group consisting of carbon and silicon carbide.

20. (new) A method according to claim 15, wherein the fibers are stabilized with a graduated system of coatings that transitions from carbon to silicon carbide.

21. (new) A method according to claim 15, wherein the

stabilized framework has a porosity p , where $5\% \leq p \leq 95\%$.

22. (new) A method according to claim 15, wherein the stabilized framework has at least one planar surface.